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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/560,681	12/14/2005	Sipke Jacob Bijlsma	NL 030680	8506
24737	7590	10/03/2007		
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			EXAMINER	
P.O. BOX 3001			VU, MINDY D	
BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
			2884	
			MAIL DATE	DELIVERY MODE
			10/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/560,681	BIJLSMA ET AL.
Examiner	Art Unit	
Mindy Vu	2884	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 02 July 2007.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-18 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-18 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 14 December 2005 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1) Certified copies of the priority documents have been received.
 2) Certified copies of the priority documents have been received in Application No. _____.
 3) Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This Office Action is in response to Applicant's amendment filed July 02, 2007.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-2, 6-7 and 11-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Ishii et al. (US 2003/0010899, hereafter Ishii).

With respect to independent Claims 1 and 6, Ishii discloses a radiation detector (Fig. 5) comprising: an insulating substrate; an electrode structure 17 disposed on said substrate; a planarising layer 39 being disposed over the electrode structure 17 and said substrate; and a protective stack which covers the planarising layer 39, wherein the protective stack has a moisture resistant layer 36 and a conversion layer 30, wherein the conversion layer 30 converts incident radiation into secondary radiation (Paragraph 0034), and wherein the moisture resistant layer 36 is positioned between the conversion layer 30 and the planarising layer 39, and wherein the substrate is substantially flat.

With respect to Claims 2 and 7, Ishii discloses the planarising layer 39 is formed as a polymer layer (Paragraph 0046).

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With respect to Claims 11 and 14, Ishii discloses the conversion layer is in direct contact with the moisture resistant layer (Fig. 5).

With respect to Claims 12 and 15, Ishii discloses the moisture resistant layer is in direct contact with the planarising layer (Fig. 5).

With respect to Claim 13, Ishii discloses the planarising layer 39 is in direct contact with the electrode structure 17 and the substrate, and wherein the planarising layer is a polymer layer (Fig. 5 & Paragraph 0046).

With respect to Claim 16, Ishii discloses the electrode structure 17 and the planarising layer 39 are positioned along a substrate that is substantially flat (Fig. 5).

With respect to Claim 17, Ishii discloses the planarsing layer 39 is in direct contact with the electrode structure 17 and the substrate (Fig. 5).

With respect to Claim 18, shii discloses the planarising layer 39 is a polymer layer (Paragraph 0046).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 3-5 and 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishii et al. (US 2003/0010899, hereafter Ishii) in view of Homme et al. (US 2006/0038131, hereafter Homme).

With respect to Claims 3 and 8, Ishii discloses the protective stack but omits an outer cover. Homme discloses a radiation image sensor having the entire surfaces of the scintillator (16) are covered with a moisture resistant film 18 (Fig. 1). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to include the protective stack of Ishii with the moisture resistant film of Homme as an outer cover in view of having the conversion layer completely resistant against water vapor (Paragraph 0152).

With respect to Claims 4 and 9, Ishii discloses the conversion layer (Fig. 5) but omits the conversion layer is a scintillation layer formed of columnar crystals. Homme discloses a radiation detector comprising a scintillator 16 having a columnar structure (Paragraph 0044). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to use a scintillator as a conversion layer as suggested by Homme in view of enhancing the optical output (Paragraph 0008).

With respect to Claims 5 and 10, Homme discloses the scintillation layer is formed from CsI:TI (Paragraph 0044).

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mindy Vu whose telephone number is 571-272-8539. The examiner can normally be reached on M-F 9am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Porta can be reached on 571-272-2444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

mv



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